



Government of India
Ministry of Science & Technology
Department of Biotechnology



BRIC
a DBT Organization



NCCS
NATIONAL CENTRE FOR CELL SCIENCE

One Day One Genome



Halalkalibacter *alkaliphilus*

The strain shows promise in
industrial enzyme production

Used in detergents and starch processing

Stable
Under
Extreme
Condition

Quality of Genome Assembly and Annotation:
Results from indigenously developed **BHARAT** analysis pipeline: (**B**acterial **H**ybrid genome **A**ssembly and **R**apid **A**nnnotation **T**oolset)

Table 1: Assembly Details		Table 2: Annotated Genome Features	
Contigs	61	CDS	4,787
GC Content	37.83	tRNA	63
Contig L50	10	Repeat Regions	0
Genome length	4,803,227 bp	rRNA	4
Contig N50	169,275		

Subsystem Analysis

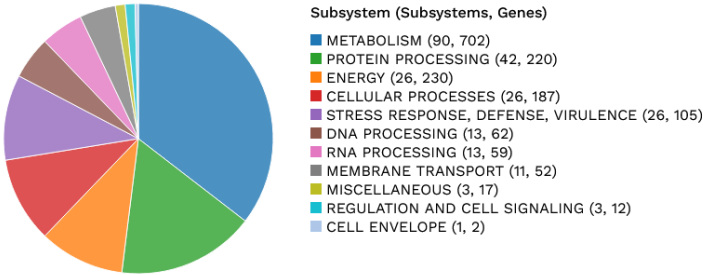


Table 3: Antimicrobial Resistance Genes

AMR Mechanism	Genes
Antibiotic target in susceptible species	Alr, Ddl, dxr, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, inhA, fabI, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p
Gene conferring resistance via absence	gidB
Protein involved in antibiotic sequestration	FabK-like

Genome Assembly

